

In the Specification:

Please amend the specification as shown:

Please insert the following paragraph before paragraph [0002]:

Sequence Listing

The instant application contains a "lengthy" Sequence Listing which has been submitted via CD-R in lieu of a printed paper copy, and is hereby incorporated by reference in its entirety. Said CD-R, recorded on October 5, 2004, are labeled "Copy 1" and "Copy 2", respectively, and each contains only one identical 604 Kb file (SEQ471UT.APP).

Please delete paragraph [0144] and replace it with the following paragraph:

[0144] When designing the siRNA molecules, the targeted region often is selected from a given DNA sequence beginning 50 to 100 nucleotides downstream of the start codon. See, e.g., Elbashir et al., Methods 26:199-213 (2002). Initially, 5' or 3' UTRs and regions nearby the start codon were avoided assuming that UTR-binding proteins and/or translation initiation complexes may interfere with binding of the siRNP or RISC endonuclease complex. Sometimes regions of the target 23 nucleotides in length conforming to the sequence motif AA(N19)TT (**SEQ ID NO: 13**) (N, any nucleotide), and regions with approximately 30% to 70% G/C-content (often about 50% G/C-content) often are selected. If no suitable sequences are found, the search often is extended using the motif NA(N21). The sequence of the sense siRNA sometimes corresponds to (N19) TT or N21 (position 3 to 23 of the 23-nt motif), respectively. In the latter case, the 3' end of the sense siRNA often is converted to TT. The rationale for this sequence conversion is to generate a symmetric duplex with respect to the sequence composition of the sense and antisense 3' overhangs. The antisense siRNA is synthesized as the complement to position 1 to 21 of the 23-nt motif. Because position 1 of the 23-nt motif is not recognized sequence-specifically by the antisense siRNA, the 3'-most nucleotide residue of the antisense siRNA can be chosen deliberately. However, the penultimate nucleotide of the antisense siRNA (complementary to position 2 of the 23-nt motif) often is complementary to the targeted sequence. For simplifying chemical synthesis, TT often is utilized. siRNAs corresponding to the target motif NAR(N17)YNN, where R is purine (A,G) and Y is pyrimidine (C,U), often are selected.

Respective 21 nucleotide sense and antisense siRNAs often begin with a purine nucleotide and can also be expressed from pol III expression vectors without a change in targeting site. Expression of RNAs from pol III promoters often is efficient when the first transcribed nucleotide is a purine.

Please delete paragraph [0237] and replace it with the following paragraph:

[0237] For each polymorphism, SpectroDESIGNER™ software (Sequenom, Inc.) was used to generate a set of PCR primers and a MassEXTEND™ primer was used to genotype the polymorphism. Table 4 shows PCR primers (SEQ ID NOS 14-21, respectively, in order of appearance) and Table 5 shows extension primers (SEQ ID NOS 22-25, respectively, in order of appearance) used for analyzing polymorphisms. The initial PCR amplification reaction was performed in a 5 µl total volume containing 1X PCR buffer with 1.5 mM MgCl₂ (Qiagen), 200 µM each of dATP, dGTP, dCTP, dTTP (Gibco-BRL), 2.5 ng of genomic DNA, 0.1 units of HotStar DNA polymerase (Qiagen), and 200 nM each of forward and reverse PCR primers specific for the polymorphic region of interest.

Table 4: PCR Primers

Reference SNP ID	Forward PCR primer	Reverse PCR primer
rs1949471	ACGTTGGATGGCTTCAACTGCTTGCT ATG	ACGTTGGATGTTCTCAGGGTCAATGAC TG
rs220097	GCAAACGTGCACATTTGCAC	TTCCTGGGAATGGATTCAG
rs1990440	CCAGGGTGTGTTCTAACG	AAGTCACTAACCCCCACACAC
rs355510	TTCTGAGATGATCCTGATGG	CCCTCCTTTAACCTTTAGG

Please delete paragraph [0239] and replace it with the following paragraph:

[0239] Once the SAP reaction was complete, a primer extension reaction was initiated by adding a polymorphism-specific MassEXTEND™ primer cocktail to each sample. Each MassEXTEND™ cocktail included a specific combination of dideoxynucleotides (ddNTPs) and deoxynucleotides (dNTPs) used to distinguish polymorphic alleles from one another. In Table 5 (SEQ ID NOS 22-25, respectively, in order of appearance), ddNTPs are shown and the fourth nucleotide not shown is the dNTP.

Table 5: Extend Primers

Reference SNP ID	Extend Probe	Term Mix
rs1949471	CAGGGTCAATGACTGTATATTAC	ACT
rs220097	ACAGAGTTAACCTCCTACA	ACT
rs1990440	CGTCAGCAAATGTGTACCGA	ACT
rs355510	ATGGTTTCTTCTTGTCCCTTC	ACG

Please delete paragraph [0250] and replace it with the following paragraph:

[0250] The methods used to verify and allelotype the proximal SNPs of Table 7 are the same methods described in Examples 1 and 2 herein. The PCR primers and extend primers used in these assays are provided in Table 8 (SEQ ID NOS 26-69, respectively, in order of appearance) and Table 9 (SEQ ID NOS 70-91, respectively, in order of appearance), respectively.

Table 8

dbSNP rs#	Forward PCR primer	Reverse PCR primer
604005	ACGTTGGATGTCTCGCTTTAGCCTGTG	ACGTTGGATGCAGACAGACATACAGAAGGG
890491	ACGTTGGATGGCAGAACATGGAGAAAAGC	ACGTTGGATGGCAAGAGTAAGGCACTATC
958902	ACGTTGGATGCCACTGAATTGTACATTAAC	ACGTTGGATATTGGAGTCCGAGCTAAAC
1195059	ACGTTGGATGCCGTTTCAATTAGACTCC	ACGTTGGATGTGCTACAAAGATTAAACC
1356612	ACGTTGGATGTTAACAGCTCAGCTAACAG	ACGTTGGATGAGATACTATGTCTTGTCTGGG
1839742	ACGTTGGATGTCAGGTCAGGAGTTGAG	ACGTTGGATGCCACCATGTCCAGCTAATT
1868890	ACGTTGGATGAGTGAGGAAGGCCTATTAAC	ACGTTGGATGATACCTGAGTCGAACCTTG
1868891	ACGTTGGATGTTATTGCTTGAACGTGGC	ACGTTGGATGTCAGGAGAAAAGAATTGGGG
1949471	ACGTTGGATGTTCTCAGGGTCAATGACTG	ACGTTGGATGAGACCCCTGCTCTTCAACG
2098941	ACGTTGGATGATTAGCTGGCATGCTATCC	ACGTTGGATGTGCTAGCCTTGAATTCTGGG
2195027	ACGTTGGATGGCCCTAAATAATGCCAC	ACGTTGGATGCTGACCTCGTATCTGCC
2341225	ACGTTGGATGGCGGGTGGGAAGACTCTAA	ACGTTGGATGTCTTCACTGTATTCAAGTC
2879969	ACGTTGGATGCCATTCAAAAAAAAAAAA	ACGTTGGATGCCATTAGAGGTATGTCCAGAG
3773845	ACGTTGGATGACACAAGTAACAAACTTGAG	ACGTTGGATGGCCTGAAGAAATTATGTG
3773851	ACGTTGGATGTAAGATA CGGAGGAGAGAG	ACGTTGGATGGCATATA GTCTTGTTGTG
3773852	ACGTTGGATGGTAGTGTACTAAATAAGTT	ACGTTGGATGGTTCCCTTGTTGTCTTCAG
3773853	ACGTTGGATGTGGTTAAATCTTGTGAGC	ACGTTGGATGCTGTAGTGTATCTGAAAC
3773855	ACGTTGGATGGCTTGTGTTATGAACTGGAG	ACGTTGGATGTTAACCTGGTAAATC
3821713	ACGTTGGATGTTCACTCAAGTAAGC	ACGTTGGATGTAGAGTGGGTGTTAC
3856760	ACGTTGGATGTGATCTCAGCTACTGTAAAC	ACGTTGGATGTGAGTCCCAGCTACTCAGG
FCH-1723	ACGTTGGATGGCTTCAACTGCTTGTATG	ACGTTGGATGTTCTCAGGGTCAATGACTG
DLG1_SNP	ACGTTGGATGCTTCAAGTAGCCAGGCTAG	ACGTTGGATGAGCACATGAACAGATGTGTC

Table 9

dbSNP rs#	Extend Primer	Term Mix
604005	TTATCAACCTACAATGGA	ACG
890491	TTATGGCCATACGTAAGCA	ACT
958902	CGGAGGGCTTATTGTA	ACT
1195059	AAAGATTTAACCATCAACAAAT	ACG
1356612	GGGTAGTGGTTCATGATTTA	ACG
1839742	TCCAGCTAATTTTGATTTA	ACT
1868890	CTGAGTCGAACCTTTGATAAA	ACT
1868891	GAAAAAGAATTGGGATTATAAC	ACG
1949471	CGAACATCTACTTCATTTACT	ACG
2098941	TCCTCCCACATCAGCCT	ACG
2195027	GCGTGAGCCACCAACACC	ACG
2341225	CACTGTATTAGATCTTCATATT	ACT
2879969	CATCATACTGCCTCTGG	ACT
3773845	TTATGTGTTCTCTATTGACT	ACT
3773851	TTTGTGGTGTGGGATTC	CGT
3773852	TATTTCCATTCCTCTCTG	ACT
3773853	AAGGGAAACTCATGATTCTA	ACG
3773855	AGGCTTTGTAGCAGT	ACG
3821713	GTGGGTGTTACACTGTTAATAC	ACT
3856760	ATGAGAATCACTGAAACCTG	ACT
FCH-1723	CAGGGTCAATGACTGTATATTAC	ACT
DLG1_SNP	AGATGTGTCACAAATGCAA	ACT

Please delete paragraph [0256] and replace it with the following paragraph:

[0256] The methods used to verify and allelotype the proximal SNPs of Table 11 are the same methods described in Examples 1 and 2 herein. The PCR primers and extend primers used in these assays are provided in Table 12 (SEQ ID NOS 92-209, respectively, in order of appearance) and Table 13 (SEQ ID NOS 210-268, respectively, in order of appearance), respectively.

Table 12

dbSNP rs#	Forward PCR primer	Reverse PCR primer
KIAA0783- SNP1	ACGTTGGATGCCCTAACACTACTCCTTGTC	ACGTTGGATGCCAACACTCTTGAGTCTG
KIAA0783- SNP2	ACGTTGGATGAGGCCACATTCTCAGATACTG	ACGTTGGATGGAAAAGAAGGAAGAAGAAG
182594	ACGTTGGATGGAGACAGAAAAGTGGTGGAC	ACGTTGGATGCCATTAGAAGGCCCTGTG

dbSNP rs#	Forward PCR primer	Reverse PCR primer
190075	ACGTTGGATGCACAAATTCACTGGCCAAGC	ACGTTGGATGCTTGTGTTGGACACCTACTG
218962	ACGTTGGATGCAGGAGTGAGAAGTCTTGTG	ACGTTGGATGTGCTGATTGGCTATGGGTG
218973	ACGTTGGATGTCTCACACTGAGGCCCTGTAG	ACGTTGGATGTTGCTGCACCCATCAACTC
218980	ACGTTGGATGCTCCCTCCCTTCTCCCTC	ACGTTGGATGCAAGATCCAATCCAGAAGAC
218981	ACGTTGGATGAGATTGCTGCCACTACACAC	ACGTTGGATGCTCTGGCATTCTTAACTCAG
218983	ACGTTGGATGTCTGCAGTTCTCTCTCAAC	ACGTTGGATGACCAAATCCAAGATGTAGGG
220090	ACGTTGGATGCAGCAGAAACTTGATGATGG	ACGTTGGATGAGACACTGAGACTCTGGAGG
220091	ACGTTGGATGGGTATACACAAGGCCCTTC	ACGTTGGATGCTGATTGCTGTTCTGTTAC
220093	ACGTTGGATGTCCACACTGTGAACAGAGAC	ACGTTGGATGAGTCTAAAAGGCTGTCAAGG
220095	ACGTTGGATGGCAGCTCAATTTTAGGAACC	ACGTTGGATGCCCTGTACACTGTTGCATG
220096	ACGTTGGATGTAGATTAATTATTGGTGGC	ACGTTGGATGCCACCTCCAAAATTAGATC
220097	ACGTTGGATGTTCTGGGAATGGATTCAG	ACGTTGGATGGCAAACGTGCACATTGCAAC
284856	ACGTTGGATGTGCATGACTACACAAAGAAG	ACGTTGGATGGCAAATCCTACATTGAGGC
286243	ACGTTGGATGATGTCTGTTCACAGTGTG	ACGTTGGATGCTGGCAAATAGCAATCTAAC
220097	ACGTTGGATGTTCTGGGAATGGATTCAG	ACGTTGGATGGCAAACGTGCACATTGCAAC
1026903	ACGTTGGATGGTACTGAAACTCTGAGCATT	ACGTTGGATGCATCTTCTGTTACCATAC
1154920	ACGTTGGATGGCTGTATATACGAGTTAATGG	ACGTTGGATGAGTGGAGGTGGAGGTGAGGCT
1154921	ACGTTGGATGAAATGCCAATAGGCCAAGG	ACGTTGGATGAGTAGAAGAGATAAGCCTGG
1154922	ACGTTGGATGTTTGCCTCACCAAGATTGC	ACGTTGGATGACAATTTCATTGAGGAGAGG
1154923	ACGTTGGATGGATGGTGTACTTGTGTTAG	ACGTTGGATGCTTACCTCCTCCTCAATG
1483201	ACGTTGGATGGTTGCTAAAGTAGTTCAAGCC	ACGTTGGATGACCAAAGAGCTGTCCTCATC
1483202	ACGTTGGATGGTCTTAAAGTGTAAACACAG	ACGTTGGATGTTGAAATTGCAACCCTGCTTG
1483204	ACGTTGGATGTATCTTACTAGCAGGCAAC	ACGTTGGATGACTAACATCACAGGCCCTGAG
1640699	ACGTTGGATGGGTTGGGTGTATGATAGGAG	ACGTTGGATGAGCATGGCTAATCTGTCTGG
1640700	ACGTTGGATGTTTATTGACTGCTTCAATC	ACGTTGGATGAGTGATTACGAGCCTGTACC
1640701	ACGTTGGATGTTAGGTGCATTGATGCTCTG	ACGTTGGATGCTCAGGCACAGAAAAGATTC
1640702	ACGTTGGATGCTGTGGTCTCAGGTCAACAA	ACGTTGGATGATGCACCTAAACAAGAGTC
1640703	ACGTTGGATGCATAATTACCTCCTGGCC	ACGTTGGATGCAAATTGTGACCTGAGACC
1640705	ACGTTGGATGACCATCAGAACCACTATACC	ACGTTGGATGGATGGCAGAACATTGATGTAC
1640710	ACGTTGGATGCCCTTCGCTGTATCTTG	ACGTTGGATGGGTACAAGGAAGATCCTCAG
1681281	ACGTTGGATGATTGAGAAAGCAGCTGTTG	ACGTTGGATGCCAACCTCCCAATACATCC
1681284	ACGTTGGATGATAAAATAGGTCTGGGCTG	ACGTTGGATGGTTGCTTACTCTGGTACTG
1681286	ACGTTGGATGGAATGTAACGCAAAGAGGG	ACGTTGGATGGTTGAAACATTGCTGCTAG
1681290	ACGTTGGATGGTACCAATAACAAATACC	ACGTTGGATGTGGCCCCCAGTCATCTTAA
1681291	ACGTTGGATGTAGCAAAACCTGCCTCTAC	ACGTTGGATGAGGTCACTGTTGGTATTG
1681292	ACGTTGGATGAGGTCACTGTTCTGGTATTG	ACGTTGGATGAGCCTGGCAACATAGCAA
1681305	ACGTTGGATGCAGACAGATGTTAGCTACC	ACGTTGGATGTGAAGTGTGGATTCCAGC
1681311	ACGTTGGATGGCTTGACCAATCATACTTCC	ACGTTGGATGGAACAAATTGCTCTGAGTCC
1681312	ACGTTGGATGTCTCAGGGCAGTAGGATT	ACGTTGGATGCACATGTGTTAATACAAGG
2108111	ACGTTGGATGAGCCTGTAAATGATAGAGCC	ACGTTGGATGGATGTCAACAGTACAGCAATG
2108114	ACGTTGGATGGATGAAAGTAGAGAAATG	ACGTTGGATGAAGGTACACCAACTGCACTC
2110376	ACGTTGGATGCCAGTTACACTGGATATTTC	ACGTTGGATGTTGACTAGCTGCTAGAAGGG
2110377	ACGTTGGATGCCAGTTACACTGGATATTTC	ACGTTGGATGTTGACTAGCTGCTAGAAGGG
2160059	ACGTTGGATGTTAAGTACCGGGAAATTCAAG	ACGTTGGATGTCAATACCTACGCAGGCTC
2190295	ACGTTGGATGTTTAAAGTAGTAGGGGC	ACGTTGGATGAGACTCCAAGAAGTGTGGG
2306768	ACGTTGGATGAAAGGTGGTTGCCAGCTG	ACGTTGGATGCTCAGTCTCCTGAAGTGTG
2353340	ACGTTGGATGCCATCTGCATGTTGCTAC	ACGTTGGATGGACTCTGGAGTACAAATG

dbSNP rs#	Forward PCR primer	Reverse PCR primer
2353341	ACGTTGGATGCACAACCAGAAATTGTAAGTC	ACGTTGGATGCACACGCATGCATCATCTAC
2353342	ACGTTGGATGTGGTTTCAGTCAAAGCTGC	ACGTTGGATGCTGAGATCTTCTCCTGAC
2353343	ACGTTGGATGGTTGCAGAGGGAAAGCATTTC	ACGTTGGATGCACTTGTGACCAGGTCACTA
2510348	ACGTTGGATGCTATCCCAGGGCTATGTTG	ACGTTGGATGGAAGTGGAGGATGAGTTGTG
2883140	ACGTTGGATGCAGCACTTACTTGTATGTAG	ACGTTGGATGCATAACCAATTGTCTTAAC
3801435	ACGTTGGATGTCAGTATGAAGCAAGCAGCC	ACGTTGGATGATGTCGCTATACTCTGTAGG
3801437	ACGTTGGATGGTAGCTGAGAAAGATGCTCAC	ACGTTGGATGATAGCTGTTCCAGTCTCTG
3801438	ACGTTGGATGATAACGGTAAAGTAGCTGG	ACGTTGGATGTTACCTGTATTGCCCTCTCG
3823875	ACGTTGGATGCTCAAGAGCCCATCATCATC	ACGTTGGATGGACAGGCTCAGATATTCAG

Table 13

dbSNP rs#	Extend Primer	Term Mix
KIAA0783 SNP1	ATTCAGCACAAGTTGTCA	ACG
KIAA0783 SNP2	GAAAGACCTAGAAAGAAAA	ACT
182594	CTCTCTTTCTCTCACT	ACT
190075	GTCTGGAGATCCGAATT	ACT
218962	GCACCATCTGATTGCC	ACT
218973	CCCAACACTATCCCTTC	ACG
218980	ATCCAGAACAAATTGCATT	ACT
218981	GTATTGCTTGTGCC	ACG
218983	GGTAAAGAGATGAAGTGC	ACG
220090	CCCAGATATCCTCGAA	ACT
220091	TGTTACTTATTACATTGTCAA	ACT
220093	TTATATTCACTCTGAAATCCC	ACT
220095	CACTGTTGCATGAAATGTA	CGT
220096	CCTGCTACAAAGGGACCTCA	ACT
220097	ACAGAGTTTAAACCTCCTACA	ACT
284856	TACATTGAGGCAGTTGTCT	ACG
286243	AGCAATCTAACATGAGATTGAGC	ACT
220097	ACAGAGTTTAAACCTCCTACA	ACT
1026903	CTTATCTGTTACCATAACATCTA	ACG
1154920	CAACACAAAATGCCAATAG	ACG
1154921	TGTGGCTGTATACAGAGTTAA	ACG
1154922	TTGAGGAGAGGAGGTAA	ACT
1154923	CATCAATCTAACATCTACATTCTAT	ACT
1483201	TGGGTGGCTCTTCTGATA	ACG
1483202	TAATCATGTGGAATTCCAG	ACT
1483204	CAGGCCTGAGCCACTGT	ACT
1640699	CTAATCTGTCTGGTTAATAGAA	ACT
1640700	GCAAAAGCAAAAGTAAGCT	ACT
1640701	AAACAATGGAATCTAGAGTAAGC	ACT
1640702	TGATTCAATTCTGTTGACTACT	ACT

dbSNP rs#	Extend Primer	Term Mix
1640703	GTGACCTGAGACCACAGATC	ACT
1640705	TCCAAATAAGAAGCCCT	ACT
1640710	CAGTGTAATAAATTATCAGTTCAT	ACT
1681281	TGGAGTTCAATATAAAGATACAC	ACT
1681284	TGTTTCAGTTTATTTGCC	ACT
1681286	TTGTCTGCTAGCCATT	ACT
1681290	AATCAGTGTTCTTAAAGGTC	ACT
1681291	CTGGTATTGTATTTATGGTACT	ACT
1681292	GGGCAACATAGCAAAACCTG	ACG
1681305	TTCCCAGCCCTACTTAC	ACT
1681311	CTGAGTCCTAAAAAAGGT	ACG
1681312	TTAATACAAGGAAATTCCAGC	ACT
2108111	AGAATTGAGACATAAAACC	ACG
2108114	GCGACAGAGCAAGACTC	ACG
2110376	GGGTCAGAGAACTCTATTAA	ACT
2110377	AGAGAACTCTATTAAAGTAGGTC	ACT
2160059	CTCATGGATCTGCTTAC	ACT
2190295	GGGGAAAAAAAGGTCAATTAA	ACT
2306768	CTGAAGTGCTGGGATTATGGG	CGT
2353340	TTTTCTGTGCTTCTTTGT	ACT
2353341	CATCTACTCTTTGAAGTT	ACT
2353342	CTTTCTCCTGACTTACAAATTC	ACT
2353343	GTGTGTTGTTGACATATCAAT	ACT
2510348	GGAGGATGAGTTGTGTTGACT	ACT
2883140	TTGTCTTAACTACTATAAACTGAA	CGT
3801435	GCTATACTCTGAGGGAGTTATCT	ACG
3801437	CAGTCTTGATTTAAGGA	ACT
3801438	CTCGTACTTTGCCAC	ACG
3823875	ATTTCAAGTGATAGGAGTCT	ACT

Please delete paragraph [0262] and replace it with the following paragraph:

[0262] The methods used to verify and allelotype the sixty-three proximal SNPs of Table 15 are the same methods described in Examples 1 and 2 herein. The PCR primers and extend primers used in these assays are provided in Table 16 (SEQ ID NOS 270-348, respectively, in order of appearance) and Table 17 (SEQ ID NOS 349-388, respectively, in order of appearance), respectively.

Table 16

dbSNP rs#	Forward PCR primer	Reverse PCR primer
740975	ACGTTGGATGGAAACCAAGATAGGAAATGG	ACGTTGGATGCTCAGTGCCAGAAATACCAAG
740976	ACGTTGGATGTCCTGTTCTAACGAGGGAG	ACGTTGGATGATCAGGACTACCTGAGCAAC
740977	ACGTTGGATGTCCAGTGAGGCCTCCCTCCAA	ACGTTGGATGCAGCAACCCAAAGCAACACG
740978	ACGTTGGATGTAGCCACGCCATTATTGGAG	ACGTTGGATGCTTCACATCCCTCTCAAAG
740979	ACGTTGGATGATCCTAACCAAGGTCTGATGG	ACGTTGGATGAAGGGCCAAGCAATGTTTG
740980	ACGTTGGATGGGTAGGGCTGTCGTTCTAT	ACGTTGGATGATGCCCTGCCACATTGGTAA
747987	ACGTTGGATGAGGTCTGGCACTGCTAAATG	ACGTTGGATGCCTTGAACTTCCAACCTG
758913	ACGTTGGATGCCTAGCCAACATCCTTTCC	ACGTTGGATGAGCAACCAAGTCTAGTTTCG
758914	ACGTTGGATGCCCTGTTAGAGGTTGGG	ACGTTGGATGTGTGATCCAGACATCAGCTC
758915	ACGTTGGATGCAAGAAGGGCATTCTACCC	ACGTTGGATGCAATGCTGCTGACATCAGAC
763388	ACGTTGGATGGGTACTCTAGCTGAGAAC	ACGTTGGATGTACAGGGATTGTATGTTGGG
973963	ACGTTGGATGGATTGTTCTGGCAGGAATG	ACGTTGGATGACAACCAACTAAACTTCAG
1004552	ACGTTGGATGGATCATCCAAGTATGCTCCC	ACGTTGGATGGCAAAACCCAGTGCCAAAAC
1035099	ACGTTGGATGAAAGGGTACCCAGACTTCAC	ACGTTGGATGTGGGAGAACTTGGTCAAC
1126160	ACGTTGGATGGGGTCTCTCTGACAGATG	ACGTTGGATGTGTTCTACCCCTGTTGTT
1468662	ACGTTGGATGGCTAGAAATCACCAGCAACC	ACGTTGGATGTCATGTAGGTTGGCTCTGAC
1544579	ACGTTGGATGACCATTATCATCTCCAGG	ACGTTGGATGCCTTATCTCTAAGACATGC
1860748	ACGTTGGATGACTCGACTAGCTAGTCTGG	ACGTTGGATGAAAGCAATCCAGCGGACAAG
1860749	ACGTTGGATGTCCCCGGAATGATACATGAC	ACGTTGGATGAAACATGATTAAGGATAAGC
1990440	ACGTTGGATGAAGTCACTAACCCCCACACAC	ACGTTGGATGCCAGGGTGTGTTCTAAACG
1990441	ACGTTGGATGTCAGAGATATGCACTGCAAG	ACGTTGGATGCACACCCCTGGCATGAATGTG
1990443	ACGTTGGATGCACTGGATTGGCAAGAAGG	ACGTTGGATGTACATGATCCTCCCCCTCTAC
2052141	ACGTTGGATGCCTGCAAAATCCCTCATACC	ACGTTGGATGATAGAACCGTGACCTTACCC
2052142	ACGTTGGATGGGTATGAGGGATTTGCAGG	ACGTTGGATGACTGGACTCACCCACATAAG
2052143	ACGTTGGATGCCAGTGTAAATACAAGGTC	ACGTTGGATGTGTGACTTCTACCTCCAC
2052145	ACGTTGGATGGTGGCTGGCTGCCAGTTCTA	ACGTTGGATGGCTCTCAATTAGATGGG
2052146	ACGTTGGATGCCACAAAGCACGTGATTC	ACGTTGGATGTTATTGAGCTCTGATAGTG
2098195	ACGTTGGATGGCTCAGTCTAAATCACAC	ACGTTGGATGCAAAGTCTCTGCCTGAGTG
2109794	ACGTTGGATGTAATCCCAGCACTTGGGAG	ACGTTGGATGAGGCTGATCTGAACCTCTG
2109795	ACGTTGGATGCAAACAAGGTCCCAGCATT	ACGTTGGATGTCTGACTCTCTAAACCC
2159714	ACGTTGGATGAAACCTCTCGTTGCTGTGG	ACGTTGGATGAAAGCCCCCTCTAGCAAAAGG
2159715	ACGTTGGATGCTGCCCTGCAAGTTCCCATTG	ACGTTGGATGTCAGGGACTGGCGAAGAAG
2191821	ACGTTGGATGGAAAGTGTCTTAGCTGCC	ACGTTGGATGTGAGATGGATCTGGAGCCAC
2191822	ACGTTGGATGATTTTCCCAGCATCTGACC	ACGTTGGATGTGCAAAGTGGTGGAGGAAAG
2215590	ACGTTGGATGTCCAAGAAGGACAGCAGTAG	ACGTTGGATGATGAGAGCCTTCTCAGGG
2215591	ACGTTGGATGATTTGTTAAATTATAGAAC	ACGTTGGATGTCCCCAGTTGCATCTGAC
2332918	ACGTTGGATGAACCATGGGACCACAATT	ACGTTGGATGAGGATGGGTGTTCTAGC
2332919	ACGTTGGATGTCTGAGGGCTCTCTAAATG	ACGTTGGATGATGAAGGAAGAAGCCCTGAC
2877821	ACGTTGGATGATAATCTATGCTTAGATTG	ACGTTGGATGTAGTAGCATTCCAAGTGCC
3937455	ACGTTGGATGGCAAGAATAGGTTCTTCGC	ACGTTGGATGACCTCCACACTCATTACCTC

Table 17

dbSNP rs#	Extend Primer	Term Mix
740975	ACCAGCTCTCTTGGAT	ACT
740976	ATCCAGATGGCCCTGAC	ACT
740977	TGGTTTCGAATAAGTAGCCAC	ACT
740978	AAGCCTTCCTATCCCCA	ACT
740979	TGCTTGGGGCAGACTGAC	CGT
740980	CACATTGGGTAAATGATGA	ACT
747987	AACCTGGTTCTGCCATT	ACT
758913	CCAGTCTAGTTTCGATCACC	ACT
758914	CCCCAGTGATCCTGAGAAAT	CGT
758915	GACATCAGACCTATGCCAGGA	ACT
763388	CACTCATGCCTCAAGCCAAT	ACT
973963	AACAACCAACTCTCCAG	ACG
1004552	TCTTGGCTCAGTGCTGC	ACG
1035099	TTGGTCAACATCGCAGC	CGT
1126160	GAAGCCCATGCTAAGTGT	ACT
1468662	CTCTGACTGAGGAGAGACC	ACT
1544579	GACATGCATCAAAGCAGCTG	ACT
1860748	TCTTGGAGCCATATTTATTTG	ACT
1860749	TTAAGGATAAAAGCAATCCAG	ACG
1990440	CGTCAGCAAATGTGTACCGA	ACT
1990441	CATGAATGTGATTCACATTCTCC	ACT
1990443	TTCCCCTCAGCTTCTAG	ACG
2052141	CTTACCCCCAAAGATGTCCA	ACG
2052142	AGCCAGGATAATCTCCTCA	ACG
2052143	TCTACCTCCACTTCCAA	ACG
2052145	ATTCAAGATGGGATCACAGAAG	ACT
2052146	GAGCTCTGATAGTGATTGTGAGT	ACT
2098195	TAAACCTTTCTATGTTCTG	ACT
2109794	CTCAGGTGATCCACCCA	ACG
2109795	TCCCAGAATTGGAGGCC	ACT
2159714	CAAAAGGATCTGAAAAG	ACG
2159715	CATAGGGATAGGAATGGG	ACT
2191821	ATGTGGGTTGGACTGGGGCT	ACT
2191822	AGGAAAGGAATGTCTGCC	ACT
2215590	CAGGGCCAGCCATGAACGT	ACG
2215591	TTCAATAAAATGTACTCATTCAA	ACT
2332918	TCTCTCTAATGGGGACC	ACG
2332919	ACTGGATCCCAGAAGAG	ACT
2877821	CCCTGTTCTGCACCTTAAA	CGT
3937455	TCCTTTTCCCCACCC	ACT

Please delete paragraph [0268] and replace it with the following paragraph:

[0268] The methods used to verify and allelotype the proximal SNPs of Table 19 are the same methods described in Examples 1 and 2 herein. The PCR primers and extend primers used in these assays are provided in Table 20 (**SEQ ID NOS 389-550**) and Table 21 (**SEQ ID NOS 551-631**), respectively.

Table 20

dbSNP rs#	Forward PCR primer	Reverse PCR primer
1056787	ACGTTGGATGCATTCATATTTGTAGATC	ACGTTGGATGTCTCAGCCCTCTGATAAAAC
1056789	ACGTTGGATGTGAAGGTTCTGGAGGTATCG	ACGTTGGATGTCTCTTAGCCAAGTCTGCC
CENPC1- SNP1	ACGTTGGATGAACAAACGCACAATATCCCCG	ACGTTGGATGGGTGAGGTTATGGGAATG
11250	ACGTTGGATGAACAAACGCACAATATCCCCG	ACGTTGGATGCATTGCCAAAGTCTTAGGT
1187960	ACGTTGGATGTGAACCCCTCAAAATCACCC	ACGTTGGATTTGTGTTCATGGGAGGAGG
1187961	ACGTTGGATGCAACAGATTTCCCTGTAGAC	ACGTTGGATGTGCATTGACTTCTCCTCAGC
1187974	ACGTTGGATGGCTGAGCAGAAGCTCTTC	ACGTTGGATGTGGCAAAGACTTCATGATT
1353626	ACGTTGGATGCAACTACTACCTAGATGATGA	ACGTTGGATGAATAGAAAATCTAAATTGTCTAC
1391110	ACGTTGGATGAGTATGAAGGTCAGGGTCAG	ACGTTGGATGAAAGAGCACTGACCATGGAG
1403151	ACGTTGGATGTCAGTCAGAGATCATAGTT	ACGTTGGATGCATGTAGTGCTTAACAAATG
1442557	ACGTTGGATGCAACACATGCACCATAGCG	ACGTTGGATGGAAGGCCACAAACAGATCAGG
1497430	ACGTTGGATGTTGCTGCTTGATGATTGGC	ACGTTGGATGTCTCTGGACTTTAGCACTG
173317	ACGTTGGATGCTATAGGACTGTAAATTGTAG	ACGTTGGATTTTACACACATGCTGTCA
1825790	ACGTTGGATGGCCAACATGGTAAACTCC	ACGTTGGATGCTGGATAACAGGTACTTGC
1843831	ACGTTGGATGTCAGCTATTCCACCTC	ACGTTGGATGACCTGTAGTCCCAGCTACTC
1843833	ACGTTGGATGGACCAACATGGTAAATCTC	ACGTTGGATGTGAGTAGCTGGACTACAGG
1846060	ACGTTGGATGAAGATTATCACCGCACTGGG	ACGTTGGATGATCTCCTGACCTCGTGTATCC
1874633	ACGTTGGATGAGGTTTTGGTATGGTTAGC	ACGTTGGATGAAAAGGGAGTTGGCCTAAA
1874635	ACGTTGGATGAGAGAGAGAGAGAGAGAG	ACGTTGGATGATGGGCTATAGTGGGATAGG
189579	ACGTTGGATGACACCAAAAGCAATGGCAC	ACGTTGGATGGTTGCCTGTTACTCTGATG
190255	ACGTTGGATGGAGATCTAGCACATTATCC	ACGTTGGATGAGGTGCTGAAATGCTAAG
191650	ACGTTGGATGGAGATACCTTGCTAAGGTG	ACGTTGGATGGGTAGTAATAATGGTACTCC
1962700	ACGTTGGATGATAAGAGAGAGGTGTTGGG	ACGTTGGATGATTTCCCTGACCTCGTGTATCC
2046599	ACGTTGGATGTATTGAATTCCCTCTGTATG	ACGTTGGATGTCATTCTTGTAGACTGAAC
2046601	ACGTTGGATGGCTCAATGACTAAGTGGAC	ACGTTGGATGGACAGAACACTAAGAGCCTA
2171386	ACGTTGGATGCTTATGAAATGAAATCAAG	ACGTTGGATGACAGCTGCAAACCTAAGGAC
2254659	ACGTTGGATGATCTCTAAGTGAGATAGAGG	ACGTTGGATGCCAGTCAAATGAAACCCAC
2276945	ACGTTGGATGGGAAATTCTATATCCCATTG	ACGTTGGATGCCAATTCAACAGAAAATATC
2632450	ACGTTGGATGTTGAGACAAGCCTAGGCAAC	ACGTTGGATGGTGTGCTGGGATTACAGGTGTG
2632453	ACGTTGGATGAAAAGTGAGAGGGCAATAGG	ACGTTGGATGCATAGTAAGTCACCAACAGC
2632454	ACGTTGGATGTTCTGTGGTCAGATGTCTC	ACGTTGGATGAGAAACAGACTTCCTCCCAG

dbSNP rs#	Forward PCR primer	Reverse PCR primer
2632456	ACGTTGGATGCCACCATATCAACAGATCAG	ACGTTGGATGCCAGTATGCTGAGAAT
2646267	ACGTTGGATGTGAGAAAAAGCACTCCTGGG	ACGTTGGATGAGGCTGAGACAGGAGAATTG
2646268	ACGTTGGATGCAGGAGAATTGCTTGAACCC	ACGTTGGATGTGAGAAAAAGCACTCCTGGG
2646269	ACGTTGGATGACCACTATTGTTCTTCTC	ACGTTGGATGGCTAAAGAGTGAACCCCTG
2646282	ACGTTGGATGGATTGTTTGAGTCATCTAC	ACGTTGGATGCTGAAATTGACCAGGAAACAC
2646285	ACGTTGGATGGGGATTGGACAAACTTGC	ACGTTGGATGCCCTTGTCTTTCATTGCTC
2646290	ACGTTGGATGGATAGCAAGCTACCTAACAG	ACGTTGGATGCCCTCTACTCCACTCAATC
2646292	ACGTTGGATGTTCTGTGGGTAGATGTC	ACGTTGGATGCAAAGAAACAGACTCCCTCC
355465	ACGTTGGATGTATGAGGTTGCCACCAAG	ACGTTGGATGTACCAAATCTGAGGGTAGTC
355466	ACGTTGGATGCAGGAGCTGCTTAATTCTC	ACGTTGGATGGATCTGGGACTAAGTCTC
355468	ACGTTGGATGCCCTCCTCATTCTGAAAC	ACGTTGGATGGGCAAGGGTAGGATTAAG
355469	ACGTTGGATGTTGGATCTAGGCATCAAGG	ACGTTGGATGAGGAGGCACATAATGCTTGG
355470	ACGTTGGATGACATACACACACACACAC	ACGTTGGATGGAGACATACACCTCTGCAAC
355471	ACGTTGGATGCTCATTACAACCTCAGCCAG	ACGTTGGATGACTCAGGACTAAGCTAGTTG
355472	ACGTTGGATGTCTCTCTCTCTCTCTC	ACGTTGGATGCAGCCCTAGTACTCAATGG
355475	ACGTTGGATGCTGCTTATCCAACTTAGA	ACGTTGGATGGTCATGTTACATACCGAAAC
355478	ACGTTGGATGGGAGGAATCCATATAGGC	ACGTTGGATGCTGCTGAAGGGATGAGTAC
355480	ACGTTGGATGGTTACAGTCCCACCAACAG	ACGTTGGATGAGTCAGGAAACACAGGTGC
355481	ACGTTGGATGATTGCCACACTGTCTCCAC	ACGTTGGATGGGATGTGGAGAAACAGGAAC
355483	ACGTTGGATGCCATGTAAGTGTGATT	ACGTTGGATGAAGTGGTAGCAGAAGTGTGG
355485	ACGTTGGATGAAGAAGAGGCATGCAAACAG	ACGTTGGATGCTGCGACAAAGACACATT
355486	ACGTTGGATGTGAGAAAAAGCACTCCTGGG	ACGTTGGATGAGGAGAATTGCTTAACCCG
355487	ACGTTGGATGCGAGGTAAATGAGCAAAGTAAG	ACGTTGGATGGACATTAGGTCATCTAACCC
355488	ACGTTGGATGCCAGTTCTATGACAAACG	ACGTTGGATGAAAGAGCAGGGACAGCAAAG
355489	ACGTTGGATGACTCTAGGTATTTGACTCC	ACGTTGGATGAACCTCCATAGTAGAAAGCC
355490	ACGTTGGATGAACCTCCATAGTAGAAAGCC	ACGTTGGATGACTCTAGGTATTTGACTCC
355493	ACGTTGGATGAGTGGTTGCTGCACCTATC	ACGTTGGATGGGAGAGCATTAGGACAAAC
355498	ACGTTGGATGATGAGAGAGGACACAAAGAG	ACGTTGGATGTTACTTGCACAGTGTGGCC
355499	ACGTTGGATGCAATCAAGCAGAAGGTGGG	ACGTTGGATGGGTGCTTCTTATAGTTGTC
355500	ACGTTGGATGCAATCAAGCAGAAGGTGGG	ACGTTGGATGGGTGCTTCTTATAGTTGTC
355508	ACGTTGGATGGTAGATGTGATCAGGTCA	ACGTTGGATGGTCACAAAGCATAGCATCC
355510	ACGTTGGATGCCCTCCTTAACTTTAGG	ACGTTGGATGTTCTGAGATGATCCTGATGG
355511	ACGTTGGATGCAGGAGGATATGTGAAAGTC	ACGTTGGATGGTGGATACCAAATCCAAGG
355513	ACGTTGGATGTGCTGTATAACAGATTACCC	ACGTTGGATGAACTAGCTAGCTAACGCCTCC
355514	ACGTTGGATGCCCTCAATAGGTTGTTGAAAC	ACGTTGGATGTTGAGTTCTACTATGTGCC
355515	ACGTTGGATGAGCTCTGCACTGTGACATAC	ACGTTGGATGGTGCAGAGTACTACTTGC
355518	ACGTTGGATGTGCCATGGGGTTGAAATC	ACGTTGGATGACACAGAGACCAGCTGAAAG
355519	ACGTTGGATGGGAAAGCAGATTGAG	ACGTTGGATGCATAGGTTGAGAACATCAAGC
3775861	ACGTTGGATGCCATCTTTGAAAATTCCAC	ACGTTGGATGCCCTCAAGTACTTGTGTTGTC
3775862	ACGTTGGATGTAATGAAGCTGAGTTATT	ACGTTGGATGGTTTTGTTATTGGTGTCC
3806810	ACGTTGGATGTCTTCTCCATATTCC	ACGTTGGATGACTCAATGGTTGATGTAGG
3822197	ACGTTGGATGTGTTGCTAAAGCTATGCTG	ACGTTGGATGTGAGCATTAGCCTAACAG
451344	ACGTTGGATGCCCTCTAGATACACTCCAT	ACGTTGGATGCAGCATGTGTGAAAAATGC
451352	ACGTTGGATGAGGCAAATTATTTGGATG	ACGTTGGATGCTCCCTAAATGGGGAAAAAG
451362	ACGTTGGATGCAACACATGCACCATAGCG	ACGTTGGATGGAAGCCACAAACAGATCAGG
451376	ACGTTGGATGAGCAGTCTATTCTGGTCAC	ACGTTGGATGGCCTTGAGCTTAAACATC
451391	ACGTTGGATGAAAGTAGGGACTGGGATGG	ACGTTGGATGGCTGTAGAGTAGTGAACCC

dbSNP rs#	Forward PCR primer	Reverse PCR primer
451397	ACGTTGGATGGTGCATATTCAAGCAGCTG	ACGTTGGATGCTGTTCCAGTAGACCTTAG
724199	ACGTTGGATGCCAGCTAAAATGCAAATAC	ACGTTGGATGTGGACTATTTGAGAATATG
768244	ACGTTGGATGTAACACCCCTCCTCATCCC	ACGTTGGATGACCTTAGCAGCCTGAAACC

Table 21

dbSNP rs#	Extend Primer	Term Mix
355469	GCACATAATGCTTGGTTGTATT	ACT
CENPC1_SNP1	CTTGACTTTCTACCTTGAA	ACT
11250	CTCTTGACTTTCTACCTTGAA	ACT
173317	ACTTAGCGGCTTAAACAAAC	ACT
189579	CTGTTCACTCTGATGGTAGTTT	CGT
190255	GTACTATGTGGCAGATGA	ACT
191650	GGTACTCCTACTTAAAATTTG	ACT
355465	GAGGGTAGTCTTGGGAACC	CGT
355466	CTCTAGTGAGCTTCCCT	ACT
355468	AGCATTAAAGTATTCATGAGAGTTC	CGT
355470	GGTCTGTTTATATGTGTGT	ACT
355471	AGCTAGTTGCTTCAGTAAGT	ACT
355472	GTACAGTCATAACAGTTGTTAA	CGT
355475	TACATACCGAAACACATTCC	CGT
355478	ACATTCTATATGGCCCCCTTG	ACT
355480	GGAGAGGATGTGGAGAAA	ACG
355481	GGTGGGACTGTAAACTA	ACT
355483	AGAAGTGTGGACACAGTATC	ACT
355485	CACATTCAACTATACAGCTTTA	ACT
355486	GTGAGCCGAAATCGTGCCAC	ACG
355487	TTCATCTAACCCCTTTCTAA	ACT
355488	AGCAAAGCTGAAAATGATAA	CGT
355489	CAATAAATAATAGCAAAGACTGG	ACT
355490	TGTTTATATTGCTGTTCTGA	CGT
355493	CTCATGTGGGGCTTAAA	CGT
355498	GTGTGGCCATTTCACT	ACT
355499	TGTTAGATAGAGGTTTATCATTT	ACT
355500	TTTTCTGCAATAGTTTCT	ACT
355508	ATACTTATGCTCTGCTACC	ACT
355510	ATGGTTTCTTTCTTGTCTTC	ACG
355511	GGATGCTCAAGCCCTTATATA	ACG
355513	GCCTCCCAGATTGCTGA	ACT
355514	TGTGCCAAATATTGCTAGAT	ACT
355515	ACTACTTGCCTGTGTCA	ACG
355518	ACCAAGCTGAAAAGAAAATC	ACT
355519	AAGCTTAGTATGTCCAAATCTAAC	ACT

dbSNP rs#	Extend Primer	Term Mix
451344	GTGTGTAAAAATGCATTCAGTT	ACG
451352	CCCCCGAAATGTTCAAAGG	ACG
451362	CCACAAACAGATCAGGTTGGTG	ACT
451376	AGTATGTAAAAAGATAGGGAAAGA	ACT
451391	GAGTAGTGAAACCCCTGACC	ACG
451397	CAGTAGACCTTAGTTCTTAACC	ACT
724199	GAGAATATGATAAAAGCTCAGACC	ACG
768244	GTTTCTGTCTGGCGA	ACG
1056787	GGATACAAGTTATGCCTTGATAG	ACT
1056789	TCCAATGGCTCACTCAG	ACG
1187960	GGAGGGAGGTCAAAATATCA	ACT
1187961	GACTTCTCCTCAGCTATGAA	ACG
1187974	TGATTAACACACCAAAAGCAATT	ACT
1353626	AATCTAAATTGTCTACTGAAACT	ACT
1391110	CCATGGAGTTGTAAGGAA	CGT
1403151	TAGTGCTTAACAAATGCTGTCA	CGT
1442557	CACAAACAGATCAGGTTGGTG	ACT
1497430	GAATTGGGGAGAGAAAAGGGA	ACT
1825790	CCTGGCAAATTGGTATTTTAG	CGT
1843831	GCGGGAGAATGGCATGA	ACT
1843833	GCTCACCAACCACACCTG	ACT
1846060	AAAGTGCTGGGATTACAGG	ACG
1874633	TGGCCTAAAAATATTTTACCGT	ACT
1874635	CAACTGTTAACAAACCAGGC	ACT
1962700	AGAGTGCTGGGATTACA	ACT
2046599	CTTTGAGACTGAACACCTCTA	ACG
2046601	AGAACACTAACAGCCTAGAATGG	ACT
2171386	AGTATGCAGAGACTTACAG	ACT
2254659	AACCCACCATTCCATG	ACG
2276945	CACAAATACCTCAAATTAA	ACG
2632450	TTACAGGTGTGAGCCAC	ACG
2632453	CACCCACAAGCCACTTGA	ACT
2632454	CTTCCTCCCAGAGCCAC	ACG
2632456	TCATAGGTAATGTGGATTTGT	ACG
2646267	TTGCTTGAACCCGGGAG	ACT
2646268	TCGGCTCACTGCAATCTCT	ACT
2646269	TTCTCGCAAAGAGAAAAC	ACT
2646282	GGAATTAGCAGTCATTTCTTA	ACG
2646285	ATTTCTCTAGACTTGTACAAT	ACT
2646290	AGTTCATCCTCAGGAA	ACT
2646292	AGACTTCCTCCCAGAGC	ACG
3775861	GTTTTGTCTCAAATAGTAAAGA	ACG
3775862	TCCATTTTATTGCAGAAGAC	ACT
3806810	ATTGGATTTGGCGTAGC	ACT

dbSNP rs#	Extend Primer	Term Mix
3822197	AGCAGTAGGCAACTTCT	ACG

Please delete paragraph [0274] and replace it with the following paragraph:

[0274] The methods used to verify and genotype the proximal SNP of Table 15 are the same methods described in Examples 1 and 2 herein. The PCR primers and extend primers used in these assays are provided in Table 1123 (SEQ ID NOS 632 and 633) and Table 1224 (SEQ ID NO: 634), respectively.

Table 23

dbSNP rs#	Second PCR primer	First PCR primer
1056787	ACGTTGGATGCATTTCATATTTGTAGATC	ACGTTGGATGTCTCAGCCCTCTGATAAAAC

Table 24

dbSNP rs#	Extend Primer	Term Mix
1056787	GGATACAAGTTATGCTTGATAG	ACT

Please delete paragraph [0275] and replace it with the following paragraph:

[0275] Table 1325, below, shows the case and control allele frequencies along with the p-values for the SNPs genotyped. The disease associated allele of column 4 is in bold and the disease associated amino acid of column 5 is also in bold. The chromosome position provided corresponds to NCBI's Build 33.

Table 25: Genotyping Results

dbSNP rs#	Position in Figure 4	Chromo- some Position	Alleles (A1/A2)	Amino Acid Change	AF F case	AF F control	p-value	Odds Ratio
1056787	42831	68317831	A/G	D389G	A = 0.030 G = 0.970	A = 0.110 G = 0.890	0.0266	1.640